

1 1. (Amended) A catheter having an elongate configuration with a proximal end
2 and a distal end, the catheter configured to contain a heat exchange fluid in heat exchange
3 relationship with at least a portion of the body of a patient and comprising:

4 an outer tube having an elongate configuration and a first lumen;

5 an inner tube disposed in the first lumen of the outer tube and having a second
6 lumen extending between the proximal end and the distal end of the catheter;

7 portions of the inner tube defining a first heat exchange fluid flow path extending
8 along the second lumen between the proximal end and the distal end of the catheter;

9 portions of the outer tube and the inner tube defining a second heat exchange fluid
10 flow path extending between the proximal end and the distal end of the catheter [first tube
11 and the second tube]; and

12 a plurality of hollow fibers having walls defining lumens for containing the heat
13 exchange fluid, the hollow fibers being sealingly coupled to the first heat exchange fluid
14 flow path and the second heat exchange fluid flow path to thereby provide a closed fluid
15 connection [providing fluid communication] between the first fluid flow path and the second
16 fluid flow path for transport of heat exchange fluid between the first fluid flow path and the
17 second fluid flow path.

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1 3. (Amended) The catheter recited in Claim 2, wherein the inner tube is
2 movable [has properties for moving] relative to the outer tube, and wherein relative